

ACTIVITIES SUBJECT TO 401 KAR 5:037 THAT COMMONLY OCCUR AT WASTEWATER TREATMENT PLANTS (WWTPS)

- Aboveground Storage Tanks (ASTs)
- Underground Storage Tanks (USTs)
- Loading and Unloading (biosolids, sludge, chemicals)
- Storage/treatment of sewage in concrete or metal basins, tanks, lagoons, or wetlands.
- Storage of chemicals in bulk quantities (55 gallons or more; 100 pounds or more)
- Land Application of biosolids or sludge.

Not all of the activities in this listing may apply to your treatment plant. Also, there may be some regulated activities that occur at your plant that are not listed above. Your Groundwater Protection Plan (GPP) must include **all** the regulated activities that occur at your site. So be sure to read Section 2 of the regulation thoroughly to assure that you have included all regulated activities in your GPP.

The Groundwater Branch requests that **all** GPPs follow the format of the guidance, "Preparing a Groundwater Protection Plan." The purpose of this mini-guidance is to point out what needs to be included in a GPP for WWTPs. Not all headings of the guidance will be addressed in this document—only those that have been deficient in previously submitted GPPs or require additional information.

Section A. GENERAL INFORMATION

Facility Address:

--Provide the actual street or road location of the treatment plant. A post office box location is not acceptable.

Person Developing GPP; Person Responsible for Implementing GPP:

--Provide name of a person, not the consulting firm or facility.
--Provide telephone number. A quick telephone call can save time and the expense of mailing a letter.

Location of Facility on Topographic Map

--You may use a copy of the topographic map and the latitude and longitude provided for the KPDES Permit. Follow instructions under this heading in the guidance. Topographic maps may be obtained from the internet. If you need directions for this, contact Pat Keefe at (502) 564-6120.

Brief Description of Facility Operation: The description must include:

1. Type of treatment.

--If activated sludge, state whether it is extended aeration, sequencing batch reactors, or oxidation ditches.
--If sand filter, state whether it is a buried sand filter, open sand filter, or recirculating sand filter.
--If a lagoon(s) is (are) utilized, state whether it is an anaerobic, aerobic (sewage), aerated, or facultative lagoon.

2. Treatment Capacity of Plant (GPD)

3. Brief description of treatment process.

B. ACTIVITIES THAT HAVE THE POTENTIAL TO POLLUTE GROUNDWATER

- If an AST (or UST) is used to store fuel for a back-up generator or to fuel vehicles, it must be listed as an activity. See guidance for instructions.
- If biosolids or sludge is hauled away from site, the activity must be listed.
- List all treatment basins, tanks, or lagoons.
- If biosolids or sludge are land applied by facility that produces them, list land application as an activity.

C. PRACTICES SELECTED TO PROTECT GROUNDWATER FROM POLLUTION

--For all facilities:

- State that a certified operator runs the plant.
- Provide the name and certification number of all certified operators.
- If an AST is in use, provide information on secondary containment. See guidance for additional instructions.
- State whether treatment basins are concrete or metal.
- If biosolids or sludge is produced, provide name and address of contractor engaged to dispose of biosolids/sludge.
- State exactly where the contractor disposes of the biosolids/sludge.
- If the biosolids or sludge is land applied, additional information is required. Contact Pat Keefe at (502) 564-6120.
- Provide protective practices for any other regulated activities listed under Section B.
- State what will be done in event of overflow or spill during loading of biosolids or sludge, what spill clean-up materials will be used, and exactly what will be done with the contaminated material.

--For facilities using sand filters, lagoons, or wetlands:

- Provide information on liners, if used.
- Provide maintenance practices to assure system functions properly and leaks can be detected.
- Provide information on frequency of pumping of septic tank or other sedimentation tank or maintenance on aerobic unit.
- Provide information on maintenance performed on sand filters.

H. REVIEW LOCATION FOR GROUNDWATER PROTECTION PLAN

If you choose to use the Groundwater Branch as the site for public review of your GPP, you will need to send a recertified copy of the GPP to us every three years, or whenever recertification is required due to a change in activities.

To obtain a copy of 401 KAR 5:037, the guidance, free generic GPPs, operation and maintenance guidelines and fact sheets for selected activities, contact Pat Keefe. If you have internet access, you are encouraged to download this information at the Groundwater Branch website. <http://water.ky.gov/gw/gwprotection/gwplans>.

If you have any questions or need assistance developing your GPP, please contact Pat Keefe or Brenda Taylor at (502) 564-6120.

(February, 2004)